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Please cancel claims 8-22 and amend the following claims without prejudice or disclaimer to reinstatement in this or another application.

B1

1. (Once amended) A method of determining the apparent affinity ( $K_d$ ) of binding between a PDZ domain and a ligand, comprising

(a) contacting an immobilized polypeptide comprising the PDZ domain and a non-PDZ domain with a plurality of different concentrations of the ligand; and

(b) determining the amount of binding of the ligand to the immobilized polypeptide at each of the concentrations of ligand, whereby the apparent affinity of binding between the PDZ domain and the ligand is determined.

B2

5. (Once amended) A method of determining the  $K_i$  of an inhibitor or suspected inhibitor of binding between a PDZ domain and a ligand, comprising

(a) contacting an immobilized polypeptide comprising the PDZ domain and a non-PDZ domain with a plurality of different mixtures of the ligand and inhibitor, wherein the different mixtures comprise a fixed amount of ligand, at least a portion of which is detectably labeled, and different concentrations of the inhibitor; and

(b) determining the amount of ligand bound at the different concentrations of inhibitor, whereby the  $K_i$  of the inhibitor is determined.

8-22. Canceled.

B3

23. (Once amended) A method for identifying an interaction between a PDZ domain and a PDZ Ligand protein (PL protein) comprising contacting the PL protein to a plurality of PDZ-containing polypeptides and detecting binding of at least one PL protein to one or more of the plurality of PDZ- containing polypeptides.

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B3 24. (Once amended) The method of claim 23 wherein the contacting occurs on an assay device that comprises the plurality of PDZ-containing polypeptides, which polypeptides include PDZ domains of different sequence and are organized in an array.

B4 27. (Once amended) A method for identifying a modulator of an interaction between a PDZ and a PDZ Ligand protein (PL protein) comprising carrying out the method of claim 23 in the presence and absence of a test compound and detecting a difference in at least one PDZ-PL interaction in the presence and absence of the test compound.

28. (Once amended) A method for identifying a modulator of an interaction between a PDZ and a PDZ Ligand protein (PL protein) comprising carrying out the method of claim 24 in the presence and absence of a test compound and detecting a difference in at least one PDZ-PL interaction in the presence and absence of the test compound.

Please add the following new claims:

B5 --31. (New) The method of claim 23 wherein  
(a) the plurality of PDZ-containing polypeptides are immobilized at different locations of an array;  
(b) contacting comprises contacting the immobilized PDZ-containing polypeptides of the array with a plurality of different concentrations of the PL protein; and  
(c) detecting comprises deterring the amount of binding of the PL protein to the immobilized polypeptide(s) at at least one of the locations at each of the concentrations of PL protein, whereby the apparent affinity of binding between the PDZ-containing polypeptide and the PL protein is determined.

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32. (New) The method of claim 31 wherein the PDZ domain-containing polypeptides each comprise a PDZ domain and a non-PDZ domain that is bound to an immobilized immunoglobulin attached to a surface of the array.

33. (New) The method of claim 31 wherein the PDZ domain-containing polypeptides are fusion proteins.

34. (New) The method of claim 33 wherein the fusion proteins are GST-PDZ domain fusion proteins.

35. (New) The method of claim 23 wherein

(a) the plurality of PDZ-containing polypeptides are immobilized at different locations of an array;

(b) contacting comprises contacting the immobilized PDZ-containing polypeptides of the array with a plurality of different mixtures of the PL protein and an inhibitor, the mixtures comprising a fixed amount of PL protein, at least a portion of which is detectably labeled, and different concentrations of inhibitor; and

(c) detecting comprises deterring the amount of binding of the PL protein to the immobilized polypeptide(s) at at least one of the locations at each of the concentrations of inhibitor, whereby the  $K_i$  of the inhibitor is determined.

36. (New) The method of claim 35 wherein the PDZ domain-containing polypeptides each comprise a PDZ domain and a non-PDZ domain that is bound to an immobilized immunoglobulin attached to a surface of the array.

37. (New) The method of claim 36 wherein the fixed amount of PL protein is between about 0.01 Kd and about 2 Kd.--